ABSTRACT

There is disclosed a base band signal generation device and others for processing transmission data so that a reception side can restored the data without recognizing whether the data has been subjected to a processing and transmitting the data with an appropriate efficiency corresponding to the communication quality. A transmission device T judges the communication quality of a transmission path L. When the communication quality is preferable, a four-value FSK symbol is generated from the bit of the most significant part of the encoded voice data and the bit of the least significant part. When the communication quality is not preferable, a four-value FSK symbol is generated from the bit of the most significant part of the encoded voice data and a redundant bit of "0". However, a symbol containing a redundant bit is set to the maximum value or the minimum value of the four values which the symbol value may have. Moreover, each bit of the encoded voice data has a value "0" when indicating that no component corresponding to the bit is present.